



RESOURCE AND PATIENT MANAGEMENT SYSTEM

EHR Laboratory Package for Small Sites without a Laboratory Professional

February 25- March 1, 2013

Office of Information Technology (OIT)
Division of Information Resource Management
Albuquerque, New Mexico

&

Oklahoma City Cohort — Kanza Health Clinic, Kickapoo Tribal Health Center, Urban Inter Tribal Center of Texas, Indian Health Care Resource Center

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Introduction

Purpose of "LIS for Non-Laboratorians" Training

The Resource Patient Management System Electronic Health Record (RPMS EHR) is a suite of software applications designed to move most clinical transactions from paper-based to an electronic environment. The EHR uses upgrades of existing RPMS applications and clinical data, but provides a graphical user interface (GUI) that facilitates access to, and direct entry of this data by clinical users. The two most significant clinical enhancements provided by the EHR are the direct entry of orders (pharmacy, laboratory, radiology, nursing, etc.) by providers, and the on-line documentation of clinical encounter notes. In addition, the EHR will make clinical decision support tools available to providers at the point of care, and will make the medical record immediately accessible to all authorized users.

Implementation of an electronic medical record (EMR) at any health care organization is a complex and lengthy process, requiring preparation and changes in essentially all areas of a medical facility. Rolling out an electronic record system at any facility will require a considerable training effort at the time of implementation, as well as an ongoing program of training and support.

This course focuses on the use of the Laboratory module for non-Laboratorians, particularly at facilities without Laboratory professionals.

Prerequisites

This class will be oriented towards non-Laboratory professionals (i.e., other than Medical Laboratory Technicians [MLT] and Medical Laboratory Technologists [MT]) who are responsible for processing Laboratory Tests at their facilities. Facilities will be able to work on their own systems during the training. This course assumes that participants have limited knowledge of the RPMS Laboratory Suite (RPMS-LIS).

Background

On February 17, 2009, President Barack H. Obama signed into law the American Recovery and Reinvestment Act of 2009 (ARRA). ARRA provides incentives to encourage hospitals and office-based physicians to adopt EHRs and other health information technology (HIT) solutions that reduce costs by improving quality, safety, and efficiency. ARRA contains numerous technology and privacy provisions with aggressive timelines for completion. Many of these ARRA milestones are related to the standards and work of the Healthcare Information Technology Standards Panel.

Health Information Technology for Economic and Clinical Health Act

The Health Information Technology for Economic and Clinical Health Act (HITECH) is a focal point of ARRA and represents an investment of more than \$19 billion towards healthcare information technology (IT)-related initiatives. The \$19 billion dedicated to HITECH is divided into two portions: (a) \$17 billion toward a Medicare/Medicaid incentive reimbursement program for both healthcare organizations and providers who can demonstrate "meaningful use" of an approved EHR; and (b) \$2 billion available to providers located in qualifying rural areas, providers serving underserved urban communities, and Indian tribes. Meaningful use of an approved EHR will be required in order for providers to qualify for, and continue to receive, incentives.

Incentive Payments

ARRA will provide incentive payments through Medicare and Medicaid reimbursement systems to encourage providers and hospitals to adopt EHRs and HIT. Hospitals that demonstrate meaningful use of certified EHRs and other HIT may be eligible for between \$2 million and \$8 million. Incentive payments are triggered when a provider or hospital demonstrates that it has become a "meaningful EHR user." The highest incentive payments will be granted to hospitals that adopt EHR technology in the years 2011, 2012, or 2013. Reduced incentive payments are granted to hospitals that adopt EHR technology in the years 2014 or 2015, while no incentive payments are granted to hospitals that adopt EHR technology after 2015. Providers and hospitals that fail to meet this time limit will be subject to penalties in the form of reduced Medicare reimbursement payments beginning in 2017.

Meaningful Use

Meaningful Use (MU) is a term used by CMS to ensure that providers and hospitals that have adopted certified EHR are using the technology to further the goals of information exchange among health care professionals. EPs (eligible providers) and EHs (eligible hospitals) will achieve meaningful use if they: (a) demonstrate use of certified EHR technology in a meaningful manner, (b) demonstrate the certified EHR technology provides for electronic exchange of health information to improve quality of care, and (c) use certified EHR technology to submit information on clinical quality and other measures.

Achieving meaningful use will be accomplished in three stages. Stage 1 will begin in 2011, Stage 2 will begin in 2013, and Stage 3 will begin in 2015. The criteria for achieving meaningful use will increase with each stage and will build upon the prior stage. Medicare and/or Medicaid incentives are available to providers and hospitals who become meaningful users of certified EHR technology, with the maximum incentives being given to EPs and hospitals that become meaningful users in Stage 1. Hospitals may be eligible for both Medicare and Medicaid incentives but EPs must choose between the two incentive programs.

For the 2011 Medicare incentives, EPs must report on three core measures and a set of specialty measures which vary depending on the EP's specialty. Eligible hospitals must report on a set of 35 measures that includes emergency department, stroke, and VTE, among other measures. Reporting of clinical quality measures in 2011 will be accomplished by attestation. Beginning in 2012 for both Medicare and Medicaid incentives, EPs and hospitals must submit information electronically on both the health IT functionality and clinical quality measures.

Meaningful Use Standards and Measures **PENDING UPDATES**

As required to achieve MU, eligible hospitals (EH) and eligible providers (EP) must report their performance on two types of measures: (a) functional and interoperability measures and (b) clinical quality measures.

The functional and interoperability measures aim to improve quality, safety, efficiency and reduce health disparities. Reporting periods for measures include (a) a continuous 90 day period for the first year and (b) the entire year for all other years. There are 25 measures for EPs: eight measures require a "Yes" or "No" answer while 17 measures require both a numerator and denominator. Eligible Hospitals require 23 measures: ten measures requiring a "Yes" or "No" answer and 13 requiring a numerator and denominator.

Table 1: Summary Overview of Meaningful Use Core Set Objectives

Course Learning Objectives

This hands-on class provides a basic overview of the RPMS-LIS and preparation required for processing Laboratory Tests. Participants are provided with the knowledge, skills, and abilities to use the RPMS-LIS in its use and offer participants the tools necessary for processing and reporting Laboratory Tests. At the end of this session participants will be able to:

- Identify the role of the Laboratory Information System (LIS) Suite in the big picture of Electronic Health Management.
- Delineate the role and responsibilities of the LIS Manager in a small Laboratory without an MT or MLT.
- Define the LIS workflow and its interactions with other RPMS modules.
- Summarize basic Laboratory terminology.
- Recognize the importance of CLIA, Joint Commission, and other regulations as they relate to Laboratory Policies and Procedures.
- Perform basic RPMS tasks.
- Describe the Anatomy of a Laboratory test.
- Order Laboratory Tests.
- Accession Laboratory Tests.
- Track Laboratory Tests.
- Result Laboratory Tests.
- Examine and use the Point of Care Button (POC).
- Describe the Reference LIS Interface.
- Generate Patient LIS Reports.
- Populate test taxonomies required for proper data collection in iCare, Diabetes Management System, and GPRA reporting.
- Maintenance of the RPMS Lab Package

Instructors and Facilitators

Laboratory Consultants and Area CACs Area Office and OIT Professionals

- Janna Morris, MPA, MT (ASCP), Office of Information Technology Laboratory Consultant
- Pam Spaeth, MT (ASCP), Office of Information Technology Laboratory Consultant
- Jennette Chase-Wilson, MS, MT (ASCP), Office of Information Technology Laboratory Consultant
- Amy Rubin, Oklahoma Area Clinical Applications Coordinator
- Robin Thompson, Oklahoma Area Clinical Applications Coordinator

Disclosure Statements: All of the faculty for this course have completed the disclosure process and have indicated that they have no significant financial relationships or affiliations with any product or commercial manufacturer that might constitute a conflict of interest. Additionally, they have agreed to use generic or multiple trade names when referring to medications and will identify an "off-Label" or experimental uses of medication.

Detailed Agenda – Central Time

	Day 1	
8:30	Welcome and Introductions	
	Janna Morris	
	At the end of this session participants should be able to:	
	Review the course agenda	
	Navigate the WebEx sessions	
	Review how to enroll in class	
	Ensure Privacy and Security of Personal Health Information (PHI)	
9:00	Overview of ThinkTank© (cont.)	
	Janna Morris	
	At the end of this session participants should be able to:	
	Identify Participant Needs and Expectations	
	Utilize ThinkTank© for brainstorming and ideas	
9:15	EHR Overview as it pertains to the Laboratory in the Patient Life Cycle	Tab 1
	Pam Spaeth	
	Examine the Importance of Patient Registration.	
	 Order a Laboratory Tests using EHR to include Reference Lab Tests and POC. 	
	 Process Reference Laboratory results and correcting POC results. 	
	 Review Laboratory Clinical results in EHR including those on the Lab Tab, Health 	
	Summary and the Visit Summary	
	 Review the process for diagnosing, treating and discharging patients based upon completed Laboratory results. 	
	 Define Roles and Responsibilities of the Non-Laboratorian RPMS-Lab Manager, coordinator, and end-user. 	
	 Examine the interaction between the various users of the RPMS system in the management of Laboratory Data. 	
9:45	Lab Suite Overview	Tab 2
3.43	Pam Spaeth	I ab Z
	At the end of this session, participants should be able to:	
	Examine the role of the Lab Suite in the big picture of Electronic Health Record.	
	Delineate the Lab workflow and interactions with other RPMS modules:	
	Discuss the Lab CPT file if using billing - Business Implications.	
	CRS, MU, and DM Clinical Reports.	
	Develop a Contingency Plan.	
	Compare and contrast CLIA, AAAHC, FQHC, RHC, CHC, TJC, CMS, and other regulations	
	as related to Laboratory Policies and Procedures.	
10:30	Break	
10:45	Basic RPMS Skills	Tab 3
	Jennie Chase-Wilson	
	At the end of this session, participants should be able to:	
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	Execute basic RPMS functions.	
12:00	Lunch	
1:30	LOINC	Tab 3
	Jennie Chase-Wilson	
	At the end of this session, participants should be able to:	
	Understand the purpose of UCUM	
	Use the UCUM Applications	
	Add a LOINC code to a test	
2:30	Use the IHS LOINC Applications Break	
2:45		Tab 4
2.45	Anatomy of a Lab Test – Terminology Pam Spaeth	1 40 4
	At the end of this session, participants should be able to examine and describe the Anatomy of a Laboratory test:	
	Test name vs. synonym	
	Panel vs. single test.	
	Data Name – Format of test results.	
	Site specimen:	
	Reference ranges.	
	- Critical values.	
	Describe POC Testing.	
	Explain importance and use of Package Inserts for POC tests.	
	Define and use Result comments.	
	Define Requesting Provider.	
	Describe Ordering Location.	
3:45	Describe nursing Quick Order for POC testing Requesting a New Test or Retiring a Test no longer in use	Tab 5
3.43	Jennie Chase -Wilson	Tab 3
	At the end of this session, participants should be able to:	
	Describe the elements needed to request a new test to be built.	
	Describe where to find the elements that are needed for a new test.	
	Describe where to go to request a new test or retire an old test.	
	Describe how a test is retired.	
4:30	Adjourn	
7.50	Wrap-up	
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8:30 Morning Greeting		Day 2	
8.45 Populating Taxonomies Janna Morris At the end of this session, participants should be able to:		Tuesday	
Populating Taxonomies Janna Morris At the end of this session, participants should be able to: Populate taxonomies. Describe the relationship of taxonomies in iCare, Diabetes Management System, and GPRA reporting.	8:30		
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3:00 Break		Discuss printing Labels and/or shipping manifest for Reference LIS Perform	
	3:00	Break	

3:15	Class Activity: Accession Tests	Tab 9
	 Retrieve patients and orders numbers from previous activity 	
	 Accession orders and record the accession numbers for the next activity View Lab Test Status 	
4:30	Adjourn	
	Wrap-up	
	Instructions for Office Hours	

	Day 3 Wednesday	
	Wednesday	
8:30	Morning Greeting	
	Questions from yesterday	
8:45	Result Lab Tests	Tab 10
	Jennie Chase-Wilson	
	At the end of this session, participants should be able to result a Lab test through utilization of:	
	 EA (auto-instruments/ref Lab). 	
	EM (manual/modify).	
	Result comments.	
	 Notification process. 	
	The Reference Lab Interface.	
	 Describe result entry outcome - the relationship between the Lab Suite and PCC 	
	 Diabetes Management System (DM), EHR, Women's Health (WH), or iCare. 	
9:45	Class Activity: Result Lab Tests	Tab 10
	OIT Lab Consultants	
	 Retrieve patients and accession numbers from previous activity 	
	Result each accessioned test	
10:00	View Lab Test Status Break	
10:00	Tracking Lab Tests	Tab 11
10.15	Pam Spaeth	Iabii
	At the end of this session, participants should be able to track test status by using the	
	following options:	
	Incomplete test list.	
	Order test status.	
	 Accession List by Date report. 	
	Review by Order Number.	
	Lookup Accession.	
	 EHR Orders and Lab tabs. 	
10:45	Documentation of Lab Only Visits	Tab 12
	Pam Spaeth	
	At the end of this session, participants should be able to track test status by using the following options:	
	Create a visit	
	 Select a Purpose of Visit (POV) 	
11:30	Lunch	
12:30	Laboratory Reports	Tab 13

	Janna Morris	
	At the end of this session, participants should be able to:	
	 Compare and contrast Laboratory Reports within the EHR Lab tab and Reports tab. 	
	Generate a Laboratory Interim Report.	
	Create a Laboratory Health Summary Report.	
	Display EHR Patient Visit.	
	Use EHR Lab tab:	
	 Most recent. 	
	 Cumulative. 	
	 All tests by date. 	
	– Worksheet.	
	– Graph.	
	 Lab test Status. 	
	Compile Laboratory Test Counts.	
1:00	Class Activity: View Laboratory Reports on Test System	Tab 13
1:45	Maintenance of the RPMS Lab Package	Tab 14
	Jennie Chase-Wilson During this session, participants will access the RPMS LIS and practice. Instructors will	
	be available to answer questions.	
	Review list of Taskman jobs	
	Overview and discuss daily, quarterly and annual maintenance	
2:30	Break	
2:45	Clinical Lab Test Results and Meaningful Use for Laboratory	Tab 15
	Janna Morris	
	During this session, participants will access the system and practice. Instructors will be available to answer questions.	
	At the end of this session participants should be able to:	
	Understand the Objective and the Measure	
	 Compare and Contrast Laboratory Package, Reference Lab Interface, Point of Care lab & PCC Data Entry of Structured Laboratory Data 	
	Generate the RPMS Meaningful Use Performance Report for Clinical Lab Test	
	Results	
	Analyze the logic for the Meaningful Use Clinical Lab Test Performance Report	
	Discuss the Unintended Consequences of Entering Laboratory Results	
	into PCC Data Entry in the Electronic Health Record Environment	
0.45	Reference Lab Implementation to meet Stage 2	
3:45	iCare Overview	
	Janna Morris	
4.00	Overview of iCare and its relation to Meaningful Use	
4:30	Adjourn Wran-un	
	Wrap-up	

Day 4 Thursday	

8:30	Morning Greeting	
	Questions from yesterday	
8:45	Reference Lab Interface	Tab 16
	Pam Spaeth	
	At the end of this session, participants should be able to	
	Overview the process	
	Clearly delineate the Preliminary steps required	
	Contacting Reference Lab Representative	
	Client needs assessment	
	Contract negotiation and signed	
	Reference Lab contacts Cimmaron	
	Cimmaron places site into Queue	
	Connectivity Established	
	Acquire label printers and other required hardware	
9:45	Class Activity: Review of Lab Processes	Tab 16
	OIT Lab Consultants	
	Order test	
	Accession test	
	Run Incomplete Test Status report	
	Result test	
	Run Incomplete Test Status report	
	Look-up results	
11:30	Lunch	
12:30	Tips and Tricks	
	Jennie Chase-Wilson • Review of VA Fileman	
	Review of VA Fileman Review of File 60	
	Suggested Small Lab Menu	
	Review of CPT Code File	
	Review LOINC Codes	
	Review Taxonomies	
1:30	Review Think Tank	
	Survey Monkey	
	Office Hours	
4:30	Adjourn	
	Wrap-up	

Biographical Sketches

Janna Morris, MPA, MT(ASCP)

Office of Information Technology EHR Laboratory Consultant

Janna Morris is a Medical Technologist in the United States Public Health Service and has worked in the Indian Health Service since 1982. Janna is a certified Medical Technologist and formally served as the Laboratory Manager at Rapid City Indian Hospital. Janna has been involved in reference lab interfacing since the early 1990s, and is now currently assigned to OIT as a National Laboratory Medical Informatics Consultant.

Pam Spaeth, MT(ASCP) IHS OIT Laboratory Consultant

Pam is a Medical Technologist, receiving her BS in Medical Technology and Chemistry at Concordia College, in Moorhead, Minnesota. She started her career as the Blood Bank Supervisor at a local hospital, from 1976 until 1988. In 1988 she came to the White Earth Health Center in Ogema, Minnesota as the Laboratory Supervisor. She has supervised the Laboratory for 21 years, until recently accepting the position for one of the OIT ARRA MT Consultants. She was on the first Laboratory team to be trained for the RPMS Lab Package at PIMC in 1995. White Earth went live with that in 1996. She was also the PCC+ lead and one of three CACs for the implementation of EHR, which White Earth has been using since May of 2007. She has been a member of the IHS Laboratory PSG since it began.

Jennette Chase-Wilson, MS, MLS(ASCP) IHS OIT Laboratory Consultant

Jennette (Jennie) Chase-Wilson received her BS in Microbiology from San Diego State University and interned at Mercy Hospital School of Medical Technology in San Diego. She received her MS in Microbiology from Montana State University. She joined the Indian Health Service in 1986 after 13 years in the private sector. Her experience in IHS has taken her from Ft. Belknap, Montana, to White river Indian Hospital, Arizona, to Yakama Service Unit, Washington, and finally to Warm Springs Health and Wellness Center in Oregon. Jennie served as Infection Control Officer at WSSU and Yakama IHS and was active on many committees throughout the years. Jennie served Portland Area Office as Assistant Project Officer for the Quest Reference Laboratory Contract 2004 - 2009. Jennie has been the Laboratory Supervisor at Warm Springs Health and Wellness Center for 11 years. During her time as lab supervisor, the laboratory became more heavily automated and computerized, expanded staffing, began a NHCA Phlebotomy Training Program, and increased the in-house test menu by 95%. The overall workload expanded more than 100%. Jennie completed the install of RPMS in 1999 in the lab. Electronic Health Records began at Warm Springs in 2004. In 2006, she and her staff developed a procedure in EHR that virtually eliminated "Lab Orphans" at WSSU. In 2007, the installation of the Quest Reference Lab Interface was begun and is now 98% interfaced. This year saw the successful implementation of EHR-POCT. Jennie has been proactive in training and advancement of all phases of POCT, working with the CAC and nursing staff to expand and perfect the process.

Cynthia Perez

Cynthia is a member of the Walker River Paiute Tribe of Schurz, Nevada. She currently has 23 years with the Indian Health Service. She began employment with the Indian Health Service (IHS) in 1979 at the Schurz Service Unit Phoenix Area. Cynthia also worked at the Bemidji Area Indian Health Service in Information Technology. She spent 8 years working in the IT department at the California Area Office. This included working closely with the EHR team, data mining, RPMS training and support to 35+ tribal programs. She has also served as the California Area Office Community Health Representative Coordinator and participated on the national Contract Health Service Workgroup. Cynthia's current position is with the Office of Urban Indian Health Programs as Information Technology Specialist/RPMS and is based out of the OIT Albuquerque Area Office. She is also a member of the RPMS Patient Registration Technical Advisory Group. Cynthia works closely with all Urban Programs nationwide providing RPMS training, support and assists in the implementation of RPMS and EHR.

Contact Information

If you have any questions or comments regarding this distribution, please contact the OIT Help Desk (IHS).

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